

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
9 September 2005 (09.09.2005)

PCT

(10) International Publication Number
WO 2005/082259 A1

(51) International Patent Classification⁷: **A61B 17/17**
(21) International Application Number:
PCT/GB2005/000734

(22) International Filing Date: 23 February 2005 (23.02.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
0404347.7 27 February 2004 (27.02.2004) GB

(71) Applicant (for all designated States except US): **DEPUY INTERNATIONAL LTD** [GB/GB]; St Anthony's Road, Beeston, Leeds LS11 8DT (GB).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **CROSS, Stanley** [GB/GB]; 7 Gainford Drive, Garforth, Leeds LS25 1HJ (GB). **ORTON, Marcus** [GB/GB]; 40 Heath Drive, Boston Spa LS23 6PB (GB). **FLETT, Magnus** [GB/GB]; 27 Hatfield View, Wakefield SF1 3SN (GB). **MOORE, Gary** [GB/GB]; 74 Aire Road, Wetherby LS22 7UE (GB). **O'SULLIVAN, Tadgh** [IE/IE]; Department of Orthopaedic Surgery, Waterford Regional Hospital, Dunmore Road, Waterford (IE).

(74) Agent: **BELCHER, Simon, James**; Urquhart-Dykes & Lord LLP, Tower North Central, Merrion Way, Leeds LS2 8PA (GB).

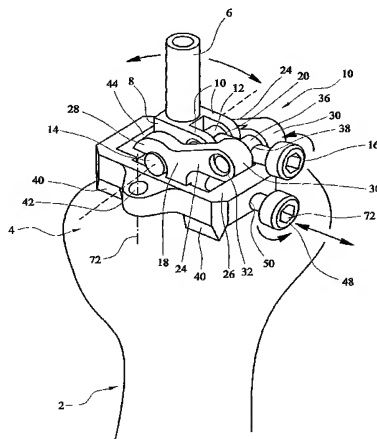
(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:
— with international search report

[Continued on next page]

(54) Title: A DRILL GUIDE ASSEMBLY



(57) Abstract: A drill guide assembly for determining the axis for drilling a bore in a generally dome-shaped bone to receive a component of an orthopaedic joint prosthesis. The drill guide assembly comprises a drill guide sleeve, and a carriage in which the drill guide sleeve is mounted towards a first end thereof so that the angular orientation of the drill guide sleeve relative to the carriage can be adjusted about at least one axis. The carriage includes at least one threaded angle-adjustment screw which extends between the carriage and the drill guide sleeve by which the angular orientation of the drill guide sleeve can be adjusted. The drill guide assembly further comprises a platform which can be fastened to the bone. The platform includes at least three feet depending from the platform to engage the surface of the bone with the bone extending towards the platform into the space between the feet. The carriage is mounted relative to the platform so that the drill guide sleeve extends away from the bone. The platform includes at least one threaded translation-adjustment screw which extends between the platform and the carriage by which the translational position of the carriage in the plane of the platform, defined by the axis of the translation-adjustment screw, can be adjusted.

WO 2005/082259 A1



— *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments*

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.